

THAT WHICH IS CLAIMED IS:

1. A vehicle interior article, comprising a layer of recyclable polymeric material that comprises:

an interpolymmer component having a composition of about sixty to eighty percent (60% - 80%) ethylene and about twenty to forty percent (20% - 40%) aromatic vinyl monomer;

a polypropylene/ethylene copolymer component; and

a polypropylene component;

wherein the interpolymmer component is at least about thirty eight percent (38%) by weight;

wherein the polypropylene copolymer component is at least about one percent (1%) by weight; and

wherein the polypropylene component is at least about five percent (5%) by weight.

2. The vehicle interior article of Claim 1, wherein the layer of recyclable polymeric material further comprises a filler component.

3. The vehicle interior article of Claim 1, wherein the filler component comprises limestone and barium sulfate components, wherein the limestone component is at least about twenty five percent (25%) by weight; and wherein the barium sulfate component is at least about five percent (5%) by weight.

4. The vehicle interior article of Claim 1, wherein the layer of recyclable polymeric material has a thickness of between about 1.6 mm and about 2.0 mm.

5. The vehicle interior article of Claim 1,

wherein the polypropylene component has a melt index of about 12.

6. The vehicle interior article of Claim 1, further comprising a backing layer attached to the layer of recyclable polymeric material in face-to-face contacting relationship therewith.

7. The vehicle interior article of Claim 6, wherein the backing layer comprises an open cell material.

8. The vehicle interior article of Claim 1, further comprising a layer of polypropylene foam attached to the layer of recyclable polymeric material in face-to-face contacting relationship therewith.

9. The vehicle interior article of Claim 8, further comprising a reinforced, polypropylene substrate attached to the layer of polypropylene foam in face-to-face contacting relationship therewith.

10. The vehicle interior article of Claim 6, further comprising a reinforced, polypropylene substrate attached to the backing layer in face-to-face contacting relationship therewith.

11. The vehicle interior article of Claim 1, wherein the vehicle interior article comprises automotive interior flooring.

12. The vehicle interior article of Claim 1, wherein the vehicle interior article comprises automotive interior trim.

13. A vehicle interior article, comprising:

a first layer of recyclable polymeric material that comprises:

5 a first interpolymer component having a composition of about twenty to forty percent (20% - 40%) ethylene and about sixty to eighty percent (60% - 80%) aromatic vinyl monomer;

10 a second interpolymer component having a composition of about sixty to eighty percent (60% - 80%) ethylene and about twenty to forty percent (20% - 40%) aromatic vinyl monomer;

a polypropylene/ethylene copolymer component; and

15 a polypropylene component;

wherein the first interpolymer component is at least about twenty five percent (25%) by weight;

20 wherein the second interpolymer component is at least about twenty four percent (24%) by weight;

wherein the polypropylene/ethylene copolymer component is at least about five percent (5%) by weight; and

25 wherein the polypropylene component is at least about twenty percent (20%) by weight; and a second layer of recyclable polymeric material

bonded to the first layer in face-to-face relationship therewith, wherein the second layer comprises:

30 a third interpolymer component having a composition of about sixty to eighty percent (60% - 80%) ethylene and about twenty to forty percent (20% - 40%) aromatic vinyl monomer;

a polypropylene/ethylene copolymer component; and

35 a polypropylene component;

wherein the third interpolymer component is at least about twenty five percent (25%) by

weight;

40                wherein the polypropylene/ethylene  
copolymer component is at least about one  
percent (1%) by weight; and

                wherein the polypropylene component is at  
least about five percent (5%) by weight.

14. The vehicle interior article of Claim 13,  
wherein the polypropylene component has a melt index of  
about 12.

15. The vehicle interior article of Claim 13,  
wherein the first layer of recyclable polymeric material  
further comprises a polyethylene polymer component,  
wherein the polyethylene polymer component is at least  
5                about five percent (5%) by weight.

16. The vehicle interior article of Claim 13,  
wherein the first layer of recyclable polymeric material  
further comprises a silicone component, wherein the  
silicone component is at least about three percent (3%)  
5                by weight.

17. The vehicle interior article of Claim 13,  
wherein the second layer of recyclable polymeric material  
further comprises a limestone component that is at least  
about fifty five percent (55%) by weight.

18. The vehicle interior article of Claim 13,  
wherein the first layer has a thickness of between about  
0.75 mm and about 1.0 mm, and wherein the second layer  
has a thickness of between about 1.0 mm and about 1.25  
5                mm.

19. The vehicle interior article of Claim 13,  
further comprising a backing layer attached to the second

layer of recyclable polymeric material in face-to-face contacting relationship therewith.

20. The vehicle interior article of Claim 19, wherein the backing layer comprises an open cell material.

21. The vehicle interior article of Claim 13, further comprising a layer of polypropylene foam attached to the second layer of recyclable polymeric material in face-to-face contacting relationship therewith.

22. The vehicle interior article of Claim 21, further comprising a reinforced, polypropylene substrate attached to the layer of polypropylene foam in face-to-face contacting relationship therewith.

23. The vehicle interior article of Claim 19, further comprising a reinforced, polypropylene substrate attached to the backing layer in face-to-face contacting relationship therewith.

24. The vehicle interior article of Claim 13, wherein the vehicle interior article comprises automotive interior flooring.

25. The vehicle interior article of Claim 13, wherein the vehicle interior article comprises automotive interior trim.

26. A method of producing a vehicle interior article, comprising:

providing a layer of recyclable polymeric material comprising:

an interpolymer component having a composition of about sixty to eighty percent

(60% - 80%) ethylene and about twenty to forty percent (20% - 40%) aromatic vinyl monomer;  
a polypropylene/ethylene copolymer  
10 component; and  
a polypropylene component;  
wherein the interpolymer component is at least about thirty eight percent (38%) by weight;  
15 wherein the polypropylene/ethylene copolymer component is at least about one percent (1%) by weight; and  
wherein the polypropylene component is at least about five percent (5%) by weight; and  
20 forming the layer of recyclable material into a desired shape.

27. The method of Claim 26, further comprising providing a layer of recyclable polymeric material comprising a filler component.

28. The method of Claim 27, wherein the filler component comprises limestone and barium sulfate components, wherein the limestone component is at least about twenty five percent (25%) by weight; and wherein  
5 the barium sulfate component is at least about five percent (5%) by weight.

29. The method of Claim 26, wherein the polypropylene component has a melt index of about 12.

30. The method of Claim 26, wherein the layer of recyclable polymeric material has a thickness of between about 1.6 mm and about 2.0 mm.

31. The method of Claim 26, further comprising attaching a backing layer to the layer of recyclable

polymeric material in face-to-face contacting relationship therewith prior to the forming step.

32. The method of Claim 31, wherein the backing layer comprises an open cell material.

33. The method of Claim 26, further comprising attaching a layer of polypropylene foam to the layer of recyclable polymeric material in face-to-face contacting relationship therewith prior to the forming step.

34. The method of Claim 33, further comprising attaching a reinforced, polypropylene substrate to the layer of polypropylene foam in face-to-face contacting relationship therewith prior to the forming step.

35. The method of Claim 32, further comprising attaching a reinforced, polypropylene substrate to the backing layer in face-to-face contacting relationship therewith prior to the forming step.

36. A method of producing a vehicle interior article, comprising:

providing a first layer of recyclable polymeric material comprising:

5           a first interpolymer component having a composition of about sixty to eighty percent (60% - 80%) ethylene and about twenty to forty percent (20% - 40%) aromatic vinyl monomer;

10           a second interpolymer component having a composition of about twenty to forty percent (20% - 40%) ethylene and about sixty to eighty percent (60% - 80%) aromatic vinyl monomer;

          a polypropylene/ethylene copolymer component; and

15           a polypropylene component;

wherein the first interpolymer component is at least about twenty five percent (25%) by weight;

20 wherein the second interpolymer component is at least about twenty four percent (24%) by weight;

wherein the polypropylene/ethylene copolymer component is at least about five percent (5%) by weight; and

25 wherein the polypropylene component is at least about twenty percent (20%) by weight; attaching a second layer of recyclable polymeric material bonded to the first layer in face-to-face relationship therewith, and comprising:

30 a third interpolymer component having a composition of about sixty to eighty percent (60% - 80%) ethylene and about twenty to forty percent (20% - 40%) aromatic vinyl monomer;

35 a polypropylene/ethylene copolymer component; and

a polypropylene component;

wherein the third interpolymer component is at least about twenty five percent (25%) by weight;

40 wherein the polypropylene/ethylene copolymer component is at least about one percent (1%) by weight; and

45 wherein the polypropylene component is at least about five percent (5%) by weight; and forming the combined first and second layers of recyclable material into a desired shape.

37. The method of Claim 36, wherein the polypropylene component has a melt index of about 12.

38. The method of Claim 36, wherein the first



layer of recyclable polymeric material further comprises a polyethylene polymer component, wherein the polyethylene polymer component is at least about five percent (5%) by weight.

39. The method of Claim 36, wherein the first layer of recyclable polymeric material further comprises a silicone component, wherein the silicone component is at least about three percent (3%) by weight.

40. The method of Claim 36, wherein the second layer of recyclable polymeric material further comprises a limestone component that is at least about fifty five percent (55%) by weight.

41. The method of Claim 36, wherein the first layer has a thickness of between about 0.75 mm and about 1.0 mm, and wherein the second layer has a thickness of between about 1.0 mm and about 1.25 mm.

42. The method of Claim 36, further comprising attaching a backing layer to the second layer of recyclable polymeric material in face-to-face contacting relationship therewith prior to the forming step.

43. The method of Claim 42, wherein the backing layer comprises an open cell material.

44. The method of Claim 36, further comprising attaching a layer of polypropylene foam to the second layer of recyclable polymeric material in face-to-face contacting relationship therewith prior to the forming step.

45. The method of Claim 44, further comprising attaching a reinforced, polypropylene substrate to the

layer of polypropylene foam in face-to-face contacting relationship therewith prior to the forming step.

46. The method of Claim 42, further comprising attaching a reinforced, polypropylene substrate to the backing layer in face-to-face contacting relationship therewith prior to the forming step.